



SPYWOLF

Security Audit Report



Completed on
March 6, 2023

@SPYWOLFNETWORK



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SPYWOLF.CO





OVERVIEW

This audit has been prepared for **PawTools** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





TABLE OF CONTENTS

Project Description	01
Contract Information	02
Current Stats	03
Vulnerability Check	04
Threat Levels	05
Found Threats	06-A/06-C
Good Practices	07
Tokenomics	08
Team Information	09
Website Analysis	10
Social Media & Online Presence	11
About SPYWOLF	12
Disclaimer	13



PAWTOOLS



PROJECT DESCRIPTION

According to their website:

PawTools combines all the essential information and data for trading in one clear overview. It saves you a lot of clicks and swipes to quickly have your trade ready

Release Date: Launched at March 04, 2023

Category: Meme token



CONTRACT INFO

Token Name
PawTools

Symbol
PawTools

Contract Address
0xB0bb49752017b87408F1a572ac530fbDa6F4A12d

Network
Binance Smart Chain

Language
Solidity

Deployment Date
March 04, 2023

Verified?
Yes

Total Supply
1,000,000,000

Status
Launched

TAXES

Buy Tax
5%

Sell Tax
5%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

Transfer Count	1255
Uniq Senders	263
Uniq Receivers	405
Total Amount	7899051080.57941 PawTools
Median Transfer Amount	2444408.947210162 PawTools
Average Transfer Amount	6294064.60603937 PawTools
First transfer date	2023-03-04
Last transfer date	2023-03-06
Days token transferred	3

SMART CONTRACT STATS

Calls Count	4447
External calls	358
Internal calls	4089
Transactions count	1249
Uniq Callers	322
Days contract called	3
Last transaction time	2023-03-06 12:45:23 UTC
Created	2023-03-04 18:09:47 UTC
Create TX	0xb60aeb9ed99db426f9c334598f73b8bbd2a01a0e10a653d9a5ae2826be0d1d93
Creator	0xcdcf5053f98452fb38cc88cd214651f9e4a8cf426



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

High Risk


No high risk-level threats found in this contract.

Medium Risk

No medium risk-level threats found in this contract.

Low Risk

No low risk-level threats found in this contract.

 Contract's ownership is renounced.
The owner does not have any special privileges!



FOUND THREATS

Informational

Contract's ownership is renounced and owner have no more access to the privileged functions.

Previously owner could:

Exclude address from fees.

```
function excludeMultipleAccountsFromFees(
    address[] calldata accounts, bool excluded) public onlyOwner {
    for(uint256 i = 0; i < accounts.length; i++) {
        _isExcludedFromFee[accounts[i]] = excluded;
    }
}
```

Set buy/sell fees up to 100%.

```
function setFee(uint256 redisFeeOnBuy, uint256 redisFeeOnSell,
    uint256 taxFeeOnBuy, uint256 taxFeeOnSell) public onlyOwner {
    _redisFeeOnBuy = redisFeeOnBuy;
    _redisFeeOnSell = redisFeeOnSell;
    _taxFeeOnBuy = taxFeeOnBuy;
    _taxFeeOnSell = taxFeeOnSell;
}
```

Owner can blacklist address from trading and token transfers.

```
function blockBots(address[] memory bots_) public onlyOwner {
    for (uint256 i = 0; i < bots_.length; i++) {
        bots[bots_[i]] = true;
    }
}
```

Can enable/disable trading and token transfers.

```
function setTrading(bool _tradingOpen) public onlyOwner {
    tradingOpen = _tradingOpen;
}
```



FOUND THREATS

Informational

Marketing and development address can withdraw accumulated ETH from contract's auto token fees swap.

```
function manualsend() external {  
    require(_msgSender() == _developmentAddress || _msgSender() == _marketingAddress);  
    uint256 contractETHBalance = address(this).balance;  
    sendETHToFee(contractETHBalance);  
}  
  
function sendETHToFee(uint256 amount) private {  
    _marketingAddress.transfer(amount);  
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

PAWTOOLS

GOOD PRACTICES FOUND

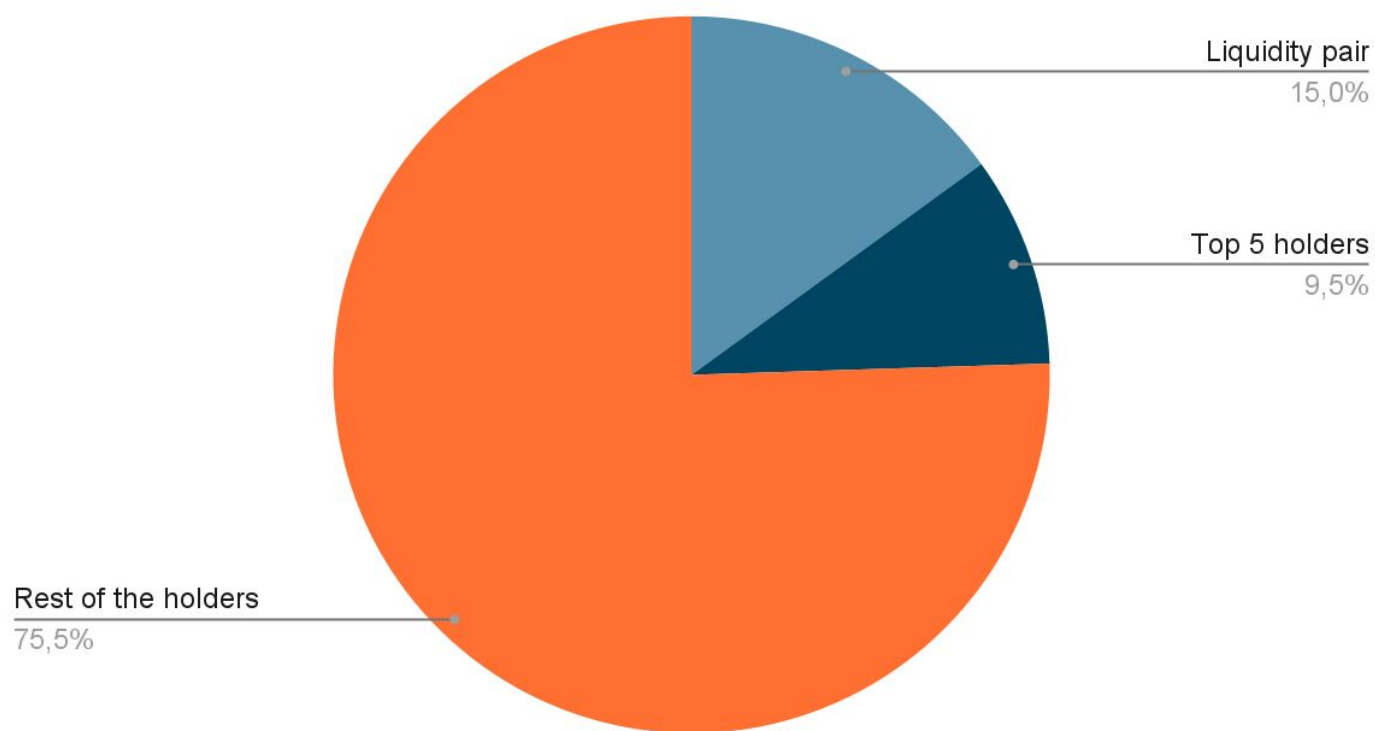
- ✓ The owner cannot stop or pause the contract
- ✓ The owner cannot set a transaction limit. Current transaction limit is 0.2% of total supply.
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



Current token distribution according to Etherscan:

- 15% - Liquidity pair
- 9.5% - Top 5 holders
- 75.5% - Rest of the holders

Tokens distribution





THE TEAM

! The team is anonymous

KYC INFORMATION

! No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





WEBSITE

Website URL

<https://pawtools.tech/>

Domain Registry

<https://www.hostinger.com>

Domain Expiration

2024-03-04

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design,
appropriate color scheme
and graphics.

Content

The information helps new
investors understand what
the product does right away.
No grammar mistakes
found.

Whitepaper

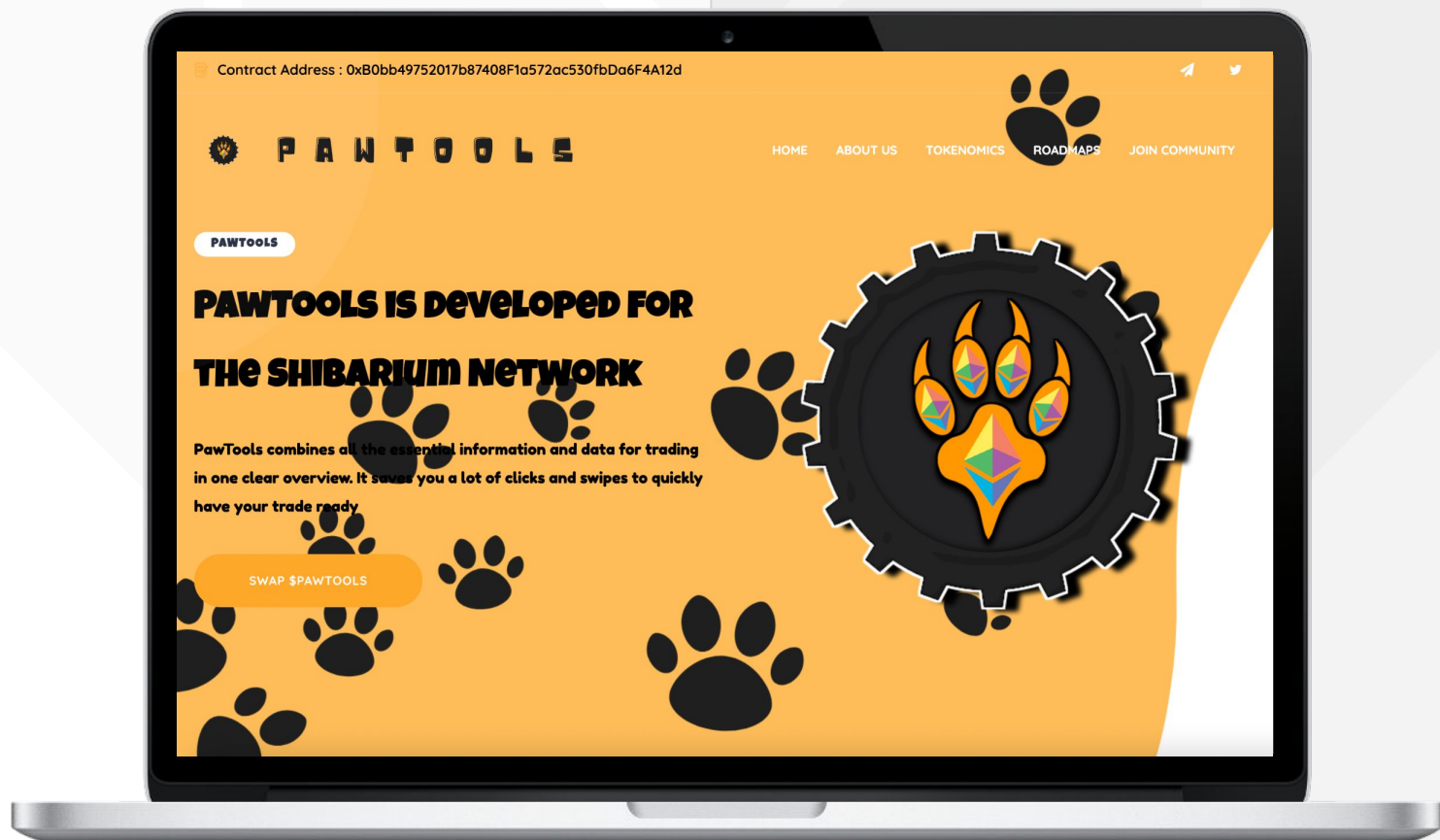
No

Roadmap

Yes, goals set with time
frames.

Mobile-friendly?

Yes



pawtools.tech



SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS

Social media pages
are active with daily
posts.



Twitter

@toolspaw

- 54 followers
- Posts daily
- 5 total posts (new account)



Discord

- Not available



Telegram

@Pawtoolsshbarium

- 1 523 members
- Active members
- Active mods



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.